

Sustainability is "meeting the needs of the present without compromising the ability of the future generations to meet their own needs." Gro Harlem Brundsland, Norwegian PM ACTIVITY Short-Term (2012) Mid-Term (2020) Limitations/Issues Long-Term (2020+) Notes Description **Signal Optimization Program** Signals within Davidson County to achieve reduction in travel Synchronization Intersections times. 540 Intersection complete; 160 remaining Intelligent Transportation Systems and Adaptive Signal Advance Transportation Management Systems Control. Replacement of incandescent lamps with LED fixtures at all signals to achieve 80-90% **Energy Efficient Signals** energy savings. 500 Intersections complete; 250 remaining **Pavement Programs** Treatment to paved surfaces < 5 years old which can extend Overall reduction of energy and fossil fuels. Rejuvenation Plan road life to 15 years. Completed 542 miles Sealing of construction joints & longitudinal cracks on roads <10 yrs to extend road life to 15 Crack Sealing Plan Completed 126 miles Sealing or waterproofing of roads >10 yrs to extend life and prevent further degrading of Fog Seal Plan service Completed 135 miles PW study in 2007 on Centennial Blvd to Asphalt mix incorporates cooler determine Hot and Warm Mix long term Warm Mix Plan quality (results in 3-5 years) tempatures Allows stormwater to be Study of current application at Howard School Complex Porous Pavement collected through pavement. Allows stormwater to be Porous Sidewalks collected through concrete Pilot project: Deaderick Street Used on Greenways, alleys, and binder on Reuse of asphalt millings. traditional paving projects Recycle Asphalt



	Public W	lorks Environm	ental Sustainal	sility Initiativa	- Matrix	
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ACTIVITY	Description	Limitations/Issues	Short-Term (2012)			Notes
	1		10	(2020)	[	
			Bridge Program			
	Use of erosion control devices,					
	planting of trees, and					
	establishing vegetative cover to		•			
	stabilize banks thereby	1	•			
	preventing sediment from					
Bridge Maintenance and Repair	entering streams/creeks					monitored by inspectors
	Reuse of debris from bridge					
	demolition as bottom layer in					
	bank stabilization, rip-rap,		•			
	undercutting, and foundation fil	ı	·			
Bridge Rehabilitation/Replacement	material					monitored by inspectors
	Use of recycled concrete and					
	high performance concrete in					
	bridge replacement projects to					
	increase durability, minimize		•			
	maintenance, and reduce					Incorporated in design, monitored by
Bridge Construction	material.					inspectors
		Multi	-Modal Transportatio	n	_	
						Update to the Sidewalk Plan completed.
			•			124 miles sidewalks repaired/ installed, over
			•			7200 curb ramps completed. Use of
	Multi-year sidewalk					recycled construction material (brick, block,
Sidewalk Plan	plan/construction.					etc.) included as sub-base material.
	Multi-year bike route		•			Update to the Bikeway Plan completed. 94
Bikeway Plan	plan/construction.		<b>▼</b>			miles of bike routes completed
Signalized Pedestrian Crossings			•			Approximately 300 crossings completed
	Directions to mass transit,		<u> </u>			
Way Finding & Signage Program	universities, etc.		•			Under design.



Sustainability is "meeting the needs of the present without compromising the ability of the future generations to meet their own needs." Gro Harlem Brundsland, Norwegian PM Mid-Term (2020) **ACTIVITY** Short-Term (2012) Long-Term (2020+) Description Limitations/Issues Notes Funding for experienced Projects completed: 12th Aven, Church Street, Gateway Blvd, Capitol Blvd and personnel and maintenance for green perimeter of Fisk University. Proposed: Planting trees, shrubs, etc. within right- of- ways. spaces in right of way Deaderick St. Streetscape Projects PW and NES partnering to study "Dark Sky" Safety lights within the right-oflamps which include LED's and use less Streetlights Additional lighting in right of Projects completed: James Robertson ways for pedestrians. Pkwy., Church St. Pedestrian Lighting **Waste Reduction Programs** Network of 13 recycling dropoff sites located throughout Public Works added 3 new sites in 2008. Nashville and Davidson Additional sites will be added based on Drop-off Recycling County. availability of funds. Single-stream residential recycling collection for single family homes and multifamily homes (4 unites or less) in the Urban Curbside Recycling - USD Services District. Monthly Collection in USD Contract currently being negociated. PW staff reviewing Residents must contract with Curbside Recycling - GSD RFP's for GSD pilot Updates to be provided in 2009. private recycler Funding and future LEEDS certified Goal to provide all City buildings with Recycling In-house Recycling building needs (glass) Regular rotation schedule **Brush Collection** Public Works conducted 3 electronic. battery and CFL recycling events in the Nashville has HHW program spring of 2008 with more planned for the for residents. Want to extend to Metro Departments. Household Hazardous Waste Funding Residents pay directly for waste collection with recycling Requires changes to Pay-As-You-Throw collected at no additional cost. Metro Code



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ACTIVITY	Description		, <b>,</b> , , , , , , , , , , , , , , , , ,		Long-Term (2020+)	· •
ACTIVITY	Expansion of School Recycling Dumpster Program to include	Limitations/issues	A	Mila-Term (2020)	Long-Term (2020+)	Notes
	single-stream at 100% of		•			Public Works promotes the MNPS/Allied
School Recycling	schools					Waste school recycling program.
	Explore best practices and					
	work with business community					
	to determine options for		▼			
Business/Commercial Recycling	Nashville.					
Construction & Demolition Recycling			•			
	DW is working to expend our					
	PW is working to expand our					
	recycling program though the					
	RFP for Recycling Services		▼			
	and Products. This includes					
	contracts for the recycling of					
Contracts	electronics, batteries and TVs.	Funding				Currently accepting RFP's.
		PW sells compost				
		bins and food				
	, ,	digesters to the public	<b>A</b>			
	to residents as a more efficient	at cost. Education is	<b>V</b>			Public Works has sold 344 Earth Machine
	way to reduce food and yard	key in getting the word				composters and 18 Green Cone Digesters
Backyard Composting	waste.	out.				so far in 2008.
		Public Works is				
	Proposed change to State law	required by State law				
	requiring all recycling	to collect data				
	companies to provide tonnage	annually from private		▼		
	information to local	recyclers and				
Recycling Tonnage Reporting	governments.	businesses.				



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ACTIVITY	Description	Limitations/Issues	,		Long-Term (2020+)		
		Metro Code requires a	Ì	, ,	, ,		
		hauling license					
		renewed annually for					
		each vehicle. This					
		proposed change in					
		Metro Code would					
		elimimate the per		<b>•</b>			
	Proposed change to Metro	vehicle license and		·			
	Code where private waste	institute a business					
	haulers in Davidson County	license requiring the					
	would be required to provide	additional recycling					
Business License for Private Waste	recycling collection to all of	service to be offered					
Haulers Requiring Recycling Service	their trash customers.	trash customers.					
		Public Works charges					
		residents a fee for the					
		second cart which					
		includes delivery cost		<b>•</b>			
	Charge residents for both	but does not charge		·			
	addidtional cart and additional	for potential additional					
	waste generated in additional	waste generated at					
Fees for Additional Trash Carts	cart/s.	the residence.					
Energy Savings							
	No idling of PW vehicles in non-		<b>A</b>				
Anti-Idling Policy	emergency situations.		<b>V</b>			Existing Policy.	
			•				
Employee 4 Day Work Week	Four 10 hour work days/week.		•			Existing Policy.	
Low Energy Lighting			•				
Standard Temperature Settings in all			_				
Buildings			<b>V</b>				



Public Works Environmental Sustainability Initiatives Matrix								
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ACTIVITY	Description	Limitations/Issues	Short-Term (2012)	Mid-Term (2020)	Long-Term (2020+)	Ţ.		
Beautification Projects								
Semi-Annual Litter Cleanups in each	Volunteer efforts to pick up		•					
councilmanic district	roadside litter in neighborhoods							
	Partnership with Businesses							
	and Residents in downtown		•					
Cigarette Litter Prevention Program	area to control cigarette litter							
	Project with Meto							
l	Beautification's Tree Advisory		•					
Urban Forest Management	Committee							
		Sustainal	ole Right of Way Opt	ions				
			•			Implement Complete Streets principals by providing multi-modal transportation options such as walking, biking, and mass transit.		
Complete Street Initiatives						Public Works conducted presentations on benefits to other Metro Departments.		
Flexibility of Design to Adapt to			<b>A</b>			·		
Changing Conditions in the Future			▼					
	Collect stormwater in		<b>A</b>					
Reuse of Storm water for Irrigation	streetscape features					Pilot project on Deaderick Street.		
Digital Sign Inventory with GPS	Sign inventory		<b>•</b>			Project 90% completed		
ADA Access	ADA compliance		<b>*</b>			Public Works has an ADA coordinator to monitor ADA activities within the right of ways.		
7.27 (7.00000	As needed incorporated in		_			Projects completed: Church Street & 12th		
Trash and Recycling Receptacles	capital projects.		•			Ave.		
, 1.y. 3 1.1 <sub>p</sub>	As needed incorporated in		_					
Benches	capital projects.		•			Projects completed: Church Street		
Surveillance Cameras for Increased			•					
Security and/or Emergency Response			·					



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